



TURMOGREASE Highspeed L 252

K P HC 2/3 K -50



Date of issue: 28.03.2013

TURMOGREASE Highspeed L 252 is regarded as universal grease for highspeed rolling bearings.

Special properties

- Very high speed factor
- Excellent smooth running properties
- Very good low temperature properties
- Long grease service life
- High operating reliability

Product Characteristics	Value	Dimension	Norm / Standard
Colour	beige		
Density at 20°C	0,910	g/cm ³	DIN 51757
Operating temperature range	-50 bis 120	°C	
Thickener	Lithium special soap		
Base oil	SHC / Ester		
Kin. viscosity of the base oil at 40°C	25	mm ² /s	DIN EN ISO 3104
Kin. viscosity of the base oil at 100°C	6	mm ² /s	DIN EN ISO 3104
Worked penetration	250 – 265	mm/10	DIN ISO 2137
Consistency class (NLGI)	2 – 3		DIN 51818
Dropping point	> 250	°C	DIN ISO 2176
Resistance to water	1 – 90		DIN 51807
Corrosion protection (SKF-Emcor)	0 / 0		DIN 51802
Speed factor of grease (n x dm)	2 200 000	mm/min	
Oil separation at 8°C	0,4	%	DIN 51817
Oil separation at 40°C	1,5	%	DIN 51817
Oil separation at 100°C	8,5	%	DIN 51817
FE8-Tests B-6000/50-90 running time without failure	> 500	h	DIN 51819
FE9-Tests A/1500/6000-120 F50	> 400	h	DIN 51821
Starting / running torque at -50°C	131 / 106	mNm	ASTMD 1478
Four-ball test O.K. load / welded load	2200 / 2400	N	DIN 51350

Application

TURMOGREASE Highspeed L 252 is used in spindle bearing arrangements of machine tools, e. g. grinding, milling and motor spindle units (spindle units driven by an integrated motor).

TURMOGREASE Highspeed L 252 is preferably used in spindle bearings and cylindrical roller bearings of a bore size below d = 100 mm of the inner ring.

Packaging units

25 x 100 g tubes, 20 x 400 g cartridges, 6 x 1 kg cans, 25 kg hobbock, 180 kg drum

The products are subject to continuous strict production controls and comply with our own factory specifications. A warranty for each case cannot be given, due to the variety of relevant factors. Therefore, we recommend the implementation of field tests. Herewith, any liability is expressly excluded.

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Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : TURMOGREASE Highspeed L 252
Revision date : 27.09.2013
Date of print : 27.09.2013

Version : 1.0.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

TURMOGREASE Highspeed L 252

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Lubricants, greases, release products

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Lubricant Consult GmbH

Street : Gutenbergstraße 13

Postal code/city : 63477 MAINTAL

Telephone : 06109/7650-0

Telefax : 06109/7650-51

1.4 Emergency Telephone Number

06109/7650-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

None

Classification according to Regulation (EC) No. 1272/2008 [CLP]

None

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Special provisions concerning the labelling of certain mixtures

101 Safety data sheet available for professional user on request.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

2.3 Other hazards

None

SECTION 3: Composition/ information on ingredients

3.2 Mixtures

Hazardous ingredients

O,O,O-triphenyl phosphorothioate ; EC No : 209-909-9; CAS No. : 597-82-0

Weight fraction : 1 - 5 %

Classification 67/548/EEC : R53

Classification 1271/2008 [CLP] : Aquatic Chronic 4 ; H413

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. In case of skin irritation, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. In case of eye irritation consult an ophthalmologist.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Let water be drunk in little sips (dilution effect).

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). ABC-powder BC-powder Foam. Dry sand

Unsuitable extinguishing media

Water. Strong water jet. High power water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

Hazardous combustion products

Sulphur dioxide (SO₂).

5.3 Advice for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

Special danger of slipping by leaking/spilling product.

6.1 Personal precautions, protective equipment and emergency procedures

None

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.3 Methods and material for containment and cleaning up

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Take up mechanically, placing in appropriate containers for disposal. Soak up inert absorbent and dispose as waste requiring special attention. Suitable material for taking up: Universal binder Kieselguhr.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

It is recommended to design all work processes always so that the following is excluded: Generation/formation of mist
Avoid: Inhalation of vapours or spray/mists Skin contact Eye contact. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class : 13

Storage class (TRGS 510) : 11

Keep away from

Food and feedingstuffs

Further information on storage conditions

Keep/Store only in original container. Keep container tightly closed. Protect against UV-radiation/sunlight. Humidity. Contact with air/oxygen.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

Keep away from: Food and feedingstuffs Wash hands before breaks and after work. Take the precautions customary when handling chemicals. Change contaminated, saturated clothing. Keep away from sources of ignition. - No smoking.

8.1 Control parameters

None

8.2 Exposure controls

Personal protection equipment

Eye / face protection

Avoid: Eye contact. Eye protection: not applicable.

Skin protection

Hand protection

Hand protection is not required

By long-term hand contact : Rubber gloves.

Respiratory protection

No special measures are necessary. Avoid: Inhalation of vapours or spray/mists

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Colour : beige

Safety relevant basis data

Physical state :				paste-like
Boiling temperature / range :	(1013 hPa)	>	300	°C
Decomposition temperature :	(1013 hPa)	>	200	°C
Flash point :	(1013 hPa)	>	200	°C
Vapour pressure :	(50 °C)	<	0,1	hPa
Density :	(20 °C)	=	0,91	g/cm ³

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO₂). Gases/vapours, harmful.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

By analogy.

Acute effects

Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

Irritant and corrosive effects

Irritation to eyes

slightly irritant but not relevant for classification.

SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

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12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Further ecological information

None

12.8 Overall evaluation

If product enters soil, it will be mobile and may contaminate groundwater. In accordance with the required stability the product is poorly biodegradable.

SECTION 13: Disposal considerations

Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Collect the waste separately. Evidence for disposal must be provided.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVWS

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

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16.1 Indication of changes

None

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Relevant R-, H- and EUH-phrases (Number and full text)

H413 May cause long lasting harmful effects to aquatic life.

53 May cause long-term adverse effects in the aquatic environment.

16.5 Training advice

None

16.6 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
